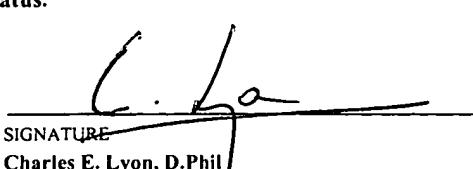


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| • FORM PTO-1390 (REV. 10-2003) U.S. DEPARTMENT OF COMMERCE AND PATENT AND TRADEMARK OFFICE | | ATTORNEY'S DOCKET NUMBER 2006164-0002 (10652-006) |
| TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371 | | U.S. APPLICATION NO. (If known, see 37 CFR 1.5) Not Yet Assigned 106537146 |
| INTERNATIONAL APPLICATION NO. PCT/CA03/001893 | INTERNATIONAL FILING DATE December 3, 2003 | PRIORITY DATE CLAIMED December 3, 2002 |
| TITLE OF INVENTION DERIVATIVES OF SUCCINIC AND GLUTARIC ACIDS AND ANALOGS THEREOF USEFUL AS INHIBITORS OF PHEX | | |
| APPLICANT(S) FOR DO/EO/US Denis Gravel, Elaref S. Ratemi, Mostafa Hatam, Guy Boileau, Philippe Crine, and Isabelle Lemire | | |
| Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: | | |
| <p>1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a filing under 35 U.S.C. 371.</p> <p>2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371.</p> <p>3. <input type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.</p> <p>4. <input type="checkbox"/> The US has been elected (Article 31).</p> <p>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371 (c)(2)) <ul style="list-style-type: none"> a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau) b. <input checked="" type="checkbox"/> has been communicated by the International Bureau. c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). </p> <p>6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371 (c)(2)). <ul style="list-style-type: none"> a. <input type="checkbox"/> is attached hereto. b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4). </p> <p>7. <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3)). <ul style="list-style-type: none"> a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> have been communicated by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendment has NOT expired. d. <input type="checkbox"/> have not been made and will not be made. </p> <p>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371 (c)(3)).</p> <p>9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. (c)(4)).</p> <p>10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).</p> | | |
| Items 11 to 20 below concern document(s) or information included: | | |
| <p>11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</p> <p>12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</p> <p>13. <input checked="" type="checkbox"/> A preliminary amendment. (9 pp.)</p> <p>14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.</p> <p>15. <input type="checkbox"/> A substitute specification.</p> <p>16. <input type="checkbox"/> A power of attorney and/or change of address letter.</p> <p>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 – 1.825.</p> <p>18. <input type="checkbox"/> A second copy of the published international application under 335 U.S.C. 154(d)(4).</p> <p>19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).</p> <p>20. <input type="checkbox"/> Other items or information: <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Written Opinion (PCT Rule 66) (9 pp.) <input checked="" type="checkbox"/> Amendment and Response under Article 34 PCT to the Written Opinion (24 pp.) <input checked="" type="checkbox"/> Certificate of Express Mailing (1 pg.) <input checked="" type="checkbox"/> Return Postcard </p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> | | |

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|--|--|---|-----------------|--------------|------|--------------|-----------|---|-------------|--------------------|---------|---|-------------|--|--|------------|-----------------|--------------------------------------|--|------------------|--|--|
| 21. <input checked="" type="checkbox"/> Other items or information: BASIC NATIONAL FEE (37 CFR 1.492 (A) (1) – (5)): | | CALCULATIONS PTO USE ONLY | | | | | | | | | | | | | | | | | | | | |
| Neither international examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO..... | | \$1080.00 | | | | | | | | | | | | | | | | | | | | |
| International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO..... | | \$920.00 | | | | | | | | | | | | | | | | | | | | |
| International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO..... | | \$770.00 | | | | | | | | | | | | | | | | | | | | |
| International preliminary examination fee (37 CFR 1.482) paid to USPTO but all claims did not satisfy provisions of PCT Article 33(1)-(4)..... | | \$730.00 | | | | | | | | | | | | | | | | | | | | |
| International preliminary examination fee (37 CFR 1.482) paid to USPTO and all claims satisfied provisions of PCT Article 33(1)-(4)..... | | \$100.00 | | | | | | | | | | | | | | | | | | | | |
| ENTER APPROPRIATE BASIC FEE AMOUNT = | | \$920.00 | | | | | | | | | | | | | | | | | | | | |
| Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492 (e)). | | \$130.00 | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 2px;">CLAIMS</th> <th style="text-align: left; padding: 2px;">NUMBER FILED</th> <th style="text-align: left; padding: 2px;">NUMBER EXTRA</th> <th style="text-align: left; padding: 2px;">RATE</th> </tr> </thead> <tbody> <tr> <td style="padding: 2px;">Total claims</td> <td style="padding: 2px;">21 - 20 =</td> <td style="padding: 2px;">1</td> <td style="padding: 2px;">1 x \$18.00</td> </tr> <tr> <td style="padding: 2px;">Independent claims</td> <td style="padding: 2px;">1 - 3 =</td> <td style="padding: 2px;">0</td> <td style="padding: 2px;">0 x \$86.00</td> </tr> <tr> <td colspan="2" style="padding: 2px;">MULTIPLE DEPENDENT CLAIM(S) (if applicable)</td> <td style="padding: 2px;">+ \$290.00</td> <td style="padding: 2px;">\$290.00</td> </tr> <tr> <td colspan="2" style="text-align: right; padding: 2px;">TOTAL OF ABOVE CALCULATIONS =</td> <td style="padding: 2px;">\$1358.00</td> <td style="padding: 2px;"></td> </tr> </tbody> </table> | | CLAIMS | NUMBER FILED | NUMBER EXTRA | RATE | Total claims | 21 - 20 = | 1 | 1 x \$18.00 | Independent claims | 1 - 3 = | 0 | 0 x \$86.00 | MULTIPLE DEPENDENT CLAIM(S) (if applicable) | | + \$290.00 | \$290.00 | TOTAL OF ABOVE CALCULATIONS = | | \$1358.00 | | |
| CLAIMS | NUMBER FILED | NUMBER EXTRA | RATE | | | | | | | | | | | | | | | | | | | |
| Total claims | 21 - 20 = | 1 | 1 x \$18.00 | | | | | | | | | | | | | | | | | | | |
| Independent claims | 1 - 3 = | 0 | 0 x \$86.00 | | | | | | | | | | | | | | | | | | | |
| MULTIPLE DEPENDENT CLAIM(S) (if applicable) | | + \$290.00 | \$290.00 | | | | | | | | | | | | | | | | | | | |
| TOTAL OF ABOVE CALCULATIONS = | | \$1358.00 | | | | | | | | | | | | | | | | | | | | |
| <input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by ½. | | \$ | | | | | | | | | | | | | | | | | | | | |
| SUBTOTAL = | | \$679.00 | | | | | | | | | | | | | | | | | | | | |
| Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492 (f)). | | \$ | | | | | | | | | | | | | | | | | | | | |
| TOTAL FEES ENCLOSED = | | \$679.00 | | | | | | | | | | | | | | | | | | | | |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property + | | \$ | | | | | | | | | | | | | | | | | | | | |
| TOTAL FEES ENCLOSED = | | \$ | | | | | | | | | | | | | | | | | | | | |
| | | Amount to be refunded: \$ | | | | | | | | | | | | | | | | | | | | |
| | | charged: \$679.00 | | | | | | | | | | | | | | | | | | | | |
| <p>a. <input checked="" type="checkbox"/> A check in the amount of \$679.00 to cover the above fees is enclosed.</p> <p>b. <input type="checkbox"/> Please charge my Deposit Account No. 03-1721 in the amount of \$ to cover the above fees.</p> <p style="margin-left: 20px;">A supplicate copy of this sheet is enclosed</p> <p>c. <input checked="" type="checkbox"/> The Commissisioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 03-1721. A duplicate of this sheet is enclosed.</p> <p>d. <input type="checkbox"/> Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.</p> | | | | | | | | | | | | | | | | | | | | | | |
| <p>NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137 (a) or (b)) must be filed and granted to restore the application to pending status.</p> <p>SEND ALL CORRESPONDENCE TO:</p> <p>Patent Group Choate, Hall & Stewart Exchange Place 53 State Street Boston, Massachusetts 02109</p> | | | | | | | | | | | | | | | | | | | | | | |
|  SIGNATURE <u>Charles E. Lyon, D.Phil.</u> | | | | | | | | | | | | | | | | | | | | | | |
| NAME <u>56,630</u> | | | | | | | | | | | | | | | | | | | | | | |
| REGISTRATION NUMBER <u></u> | | | | | | | | | | | | | | | | | | | | | | |

ATTORNEY DOCKET NO: 2006164-0002

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Denis Gravel, *et al.*
International Application No.: PCT/CA03/001893
International Filing Date: December 3, 2003
Priority Date: December 3, 2002
Title: DERIVATIVES OF SUCCINIC AND GLUTARIC
ACIDS AND ANALOGS THEREOF USEFUL AS
INHIBITORS OF PHEX

Mail Stop PCT
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Certificate of Express Mailing

I hereby certify that the foregoing documents are being deposited with the United States Postal Service as Express Mail, in an envelope addressed to Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on this date of June 2, 2005.



Megan Crowley
Express Mail No.: EV 170 393 369 US